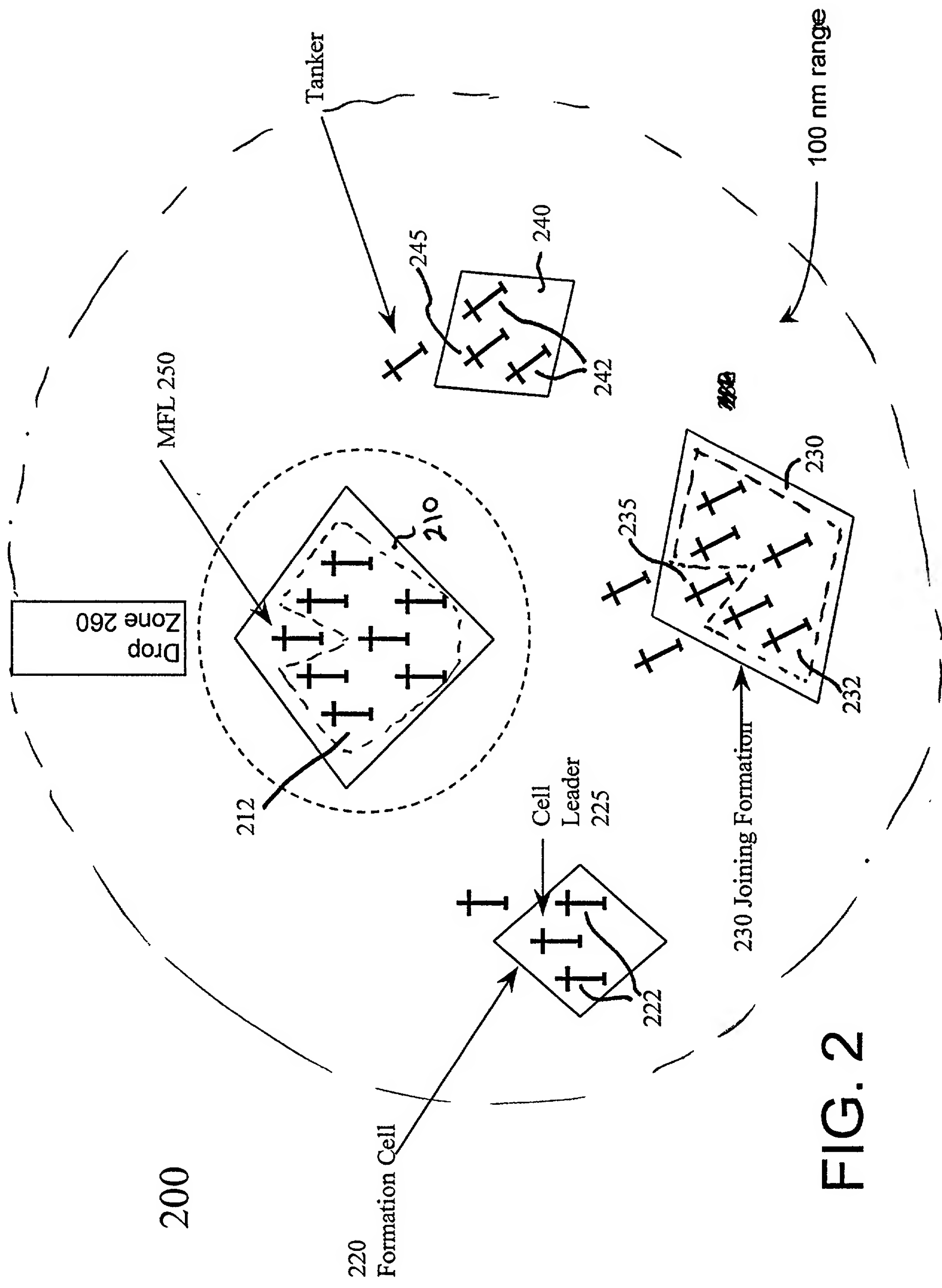


Fig. 1 (PRIOR ART)



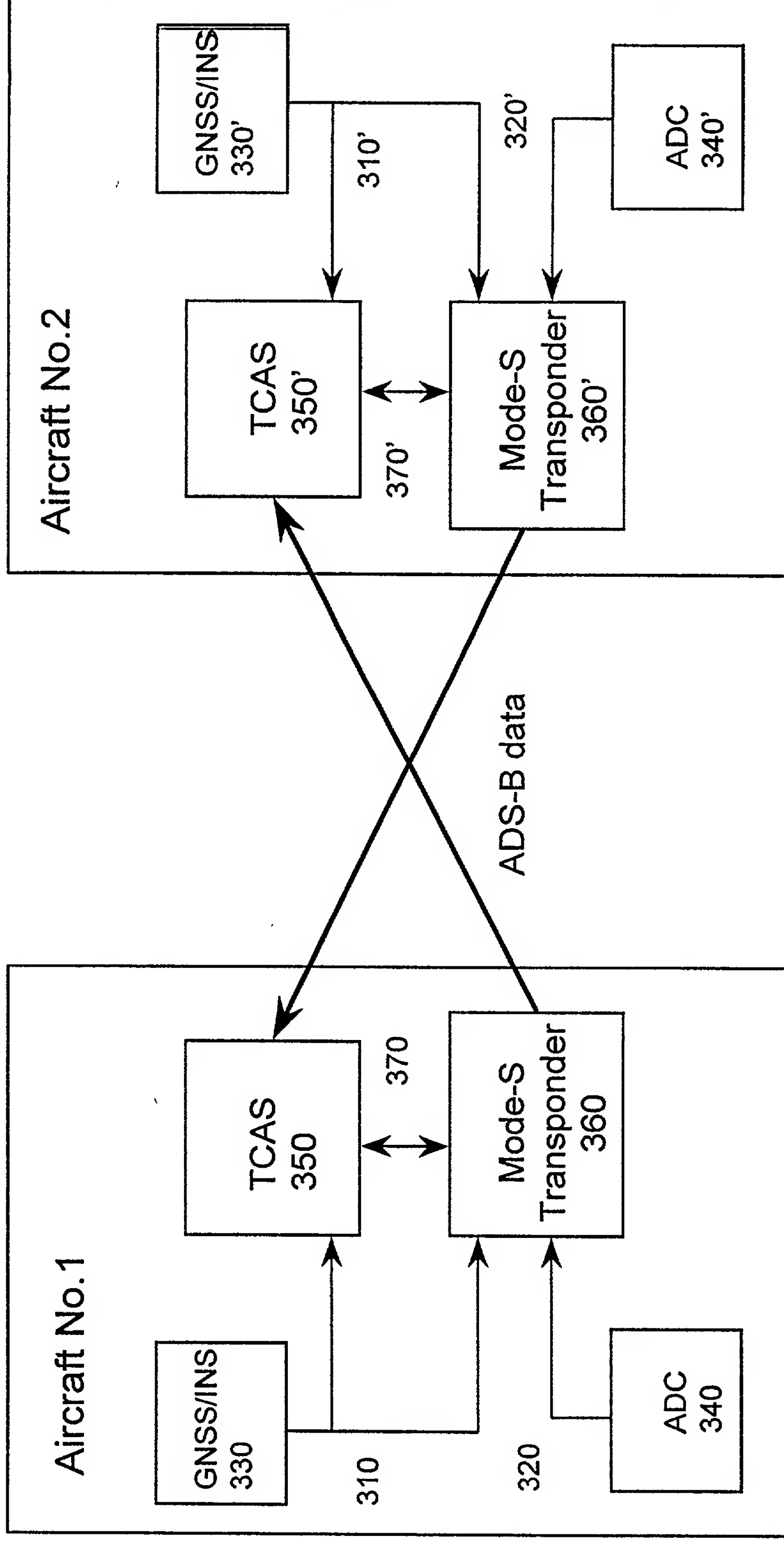


FIG. 3

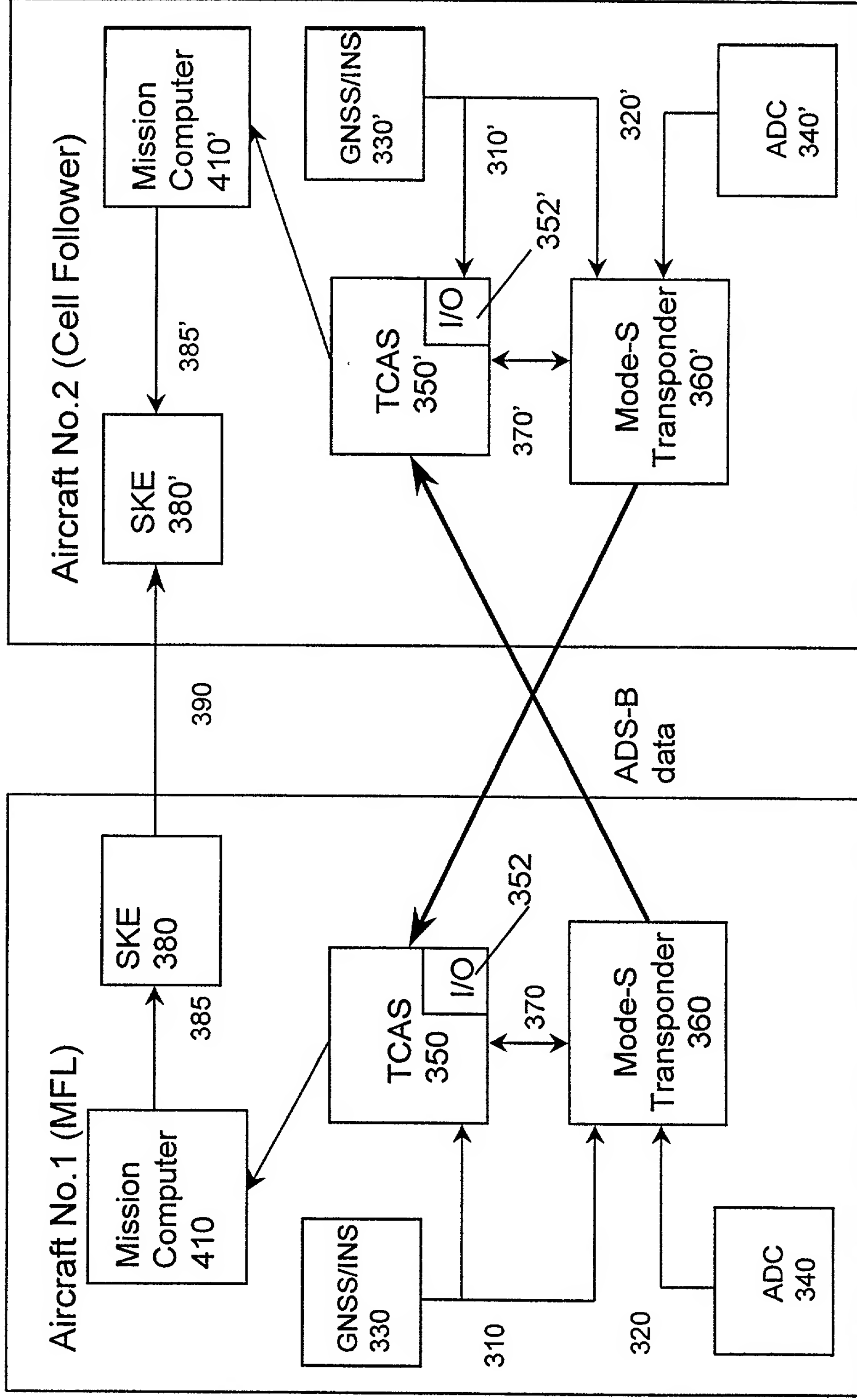


FIG. 4

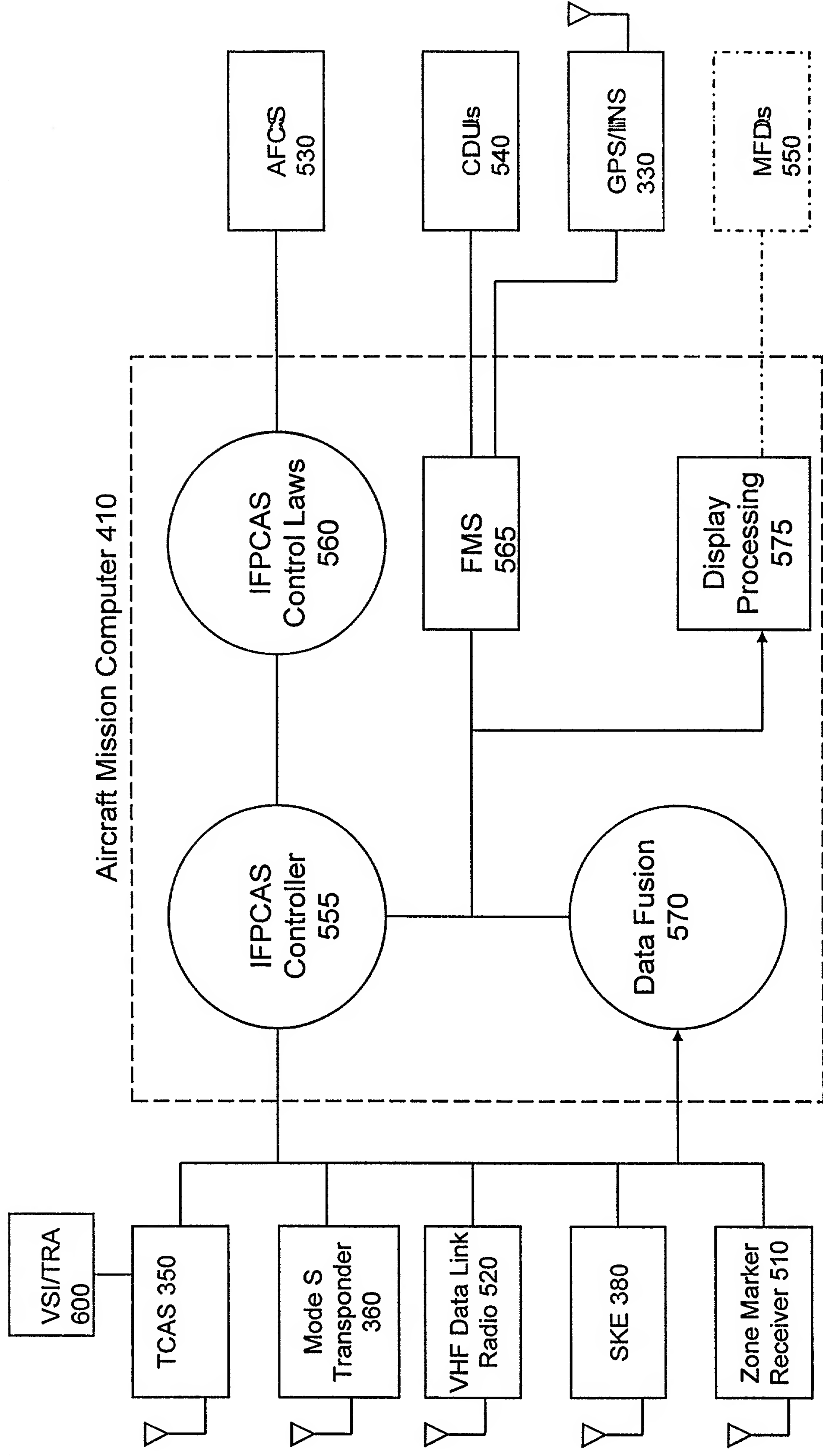
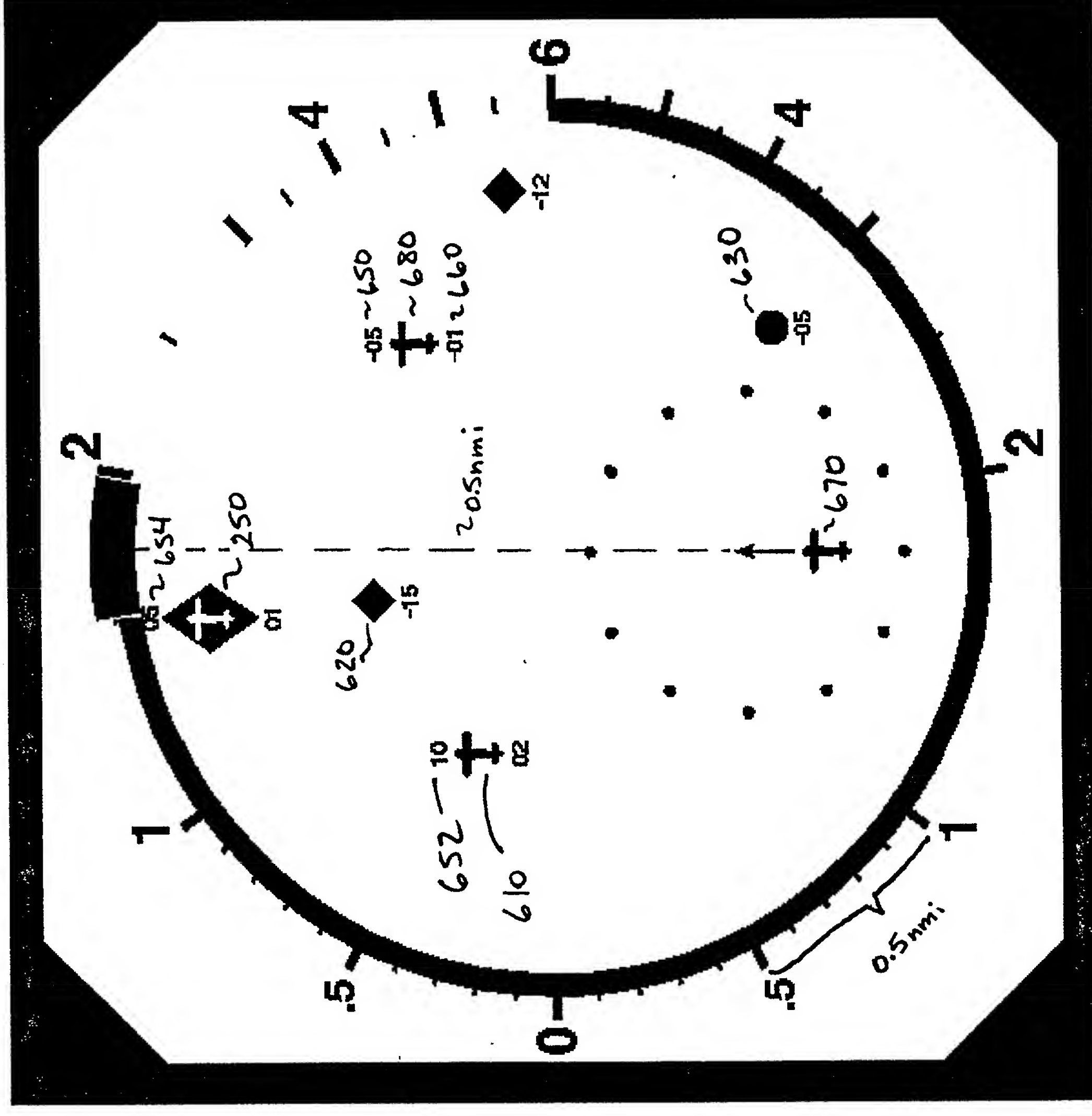


FIG. 5



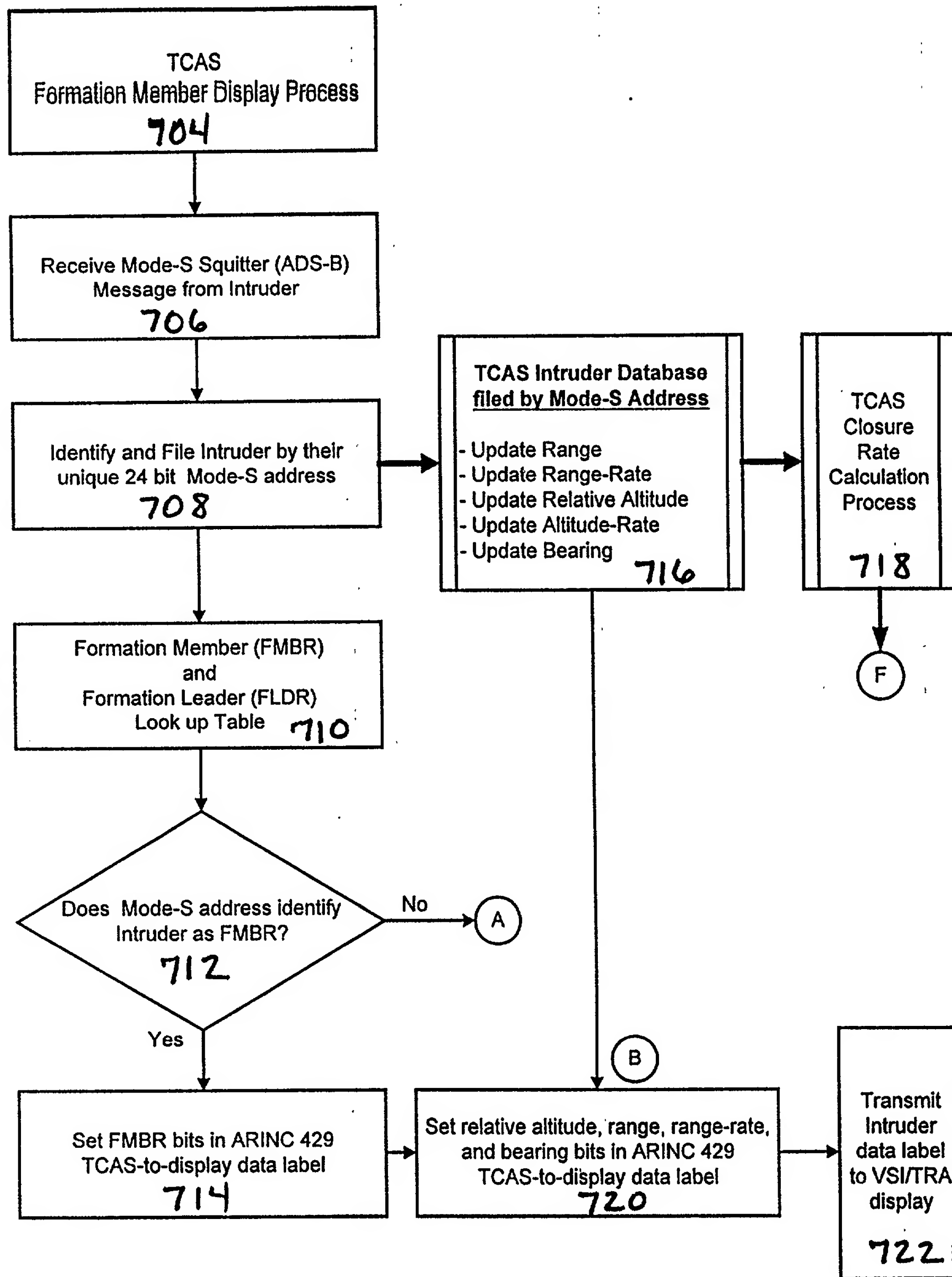


FIG. 7

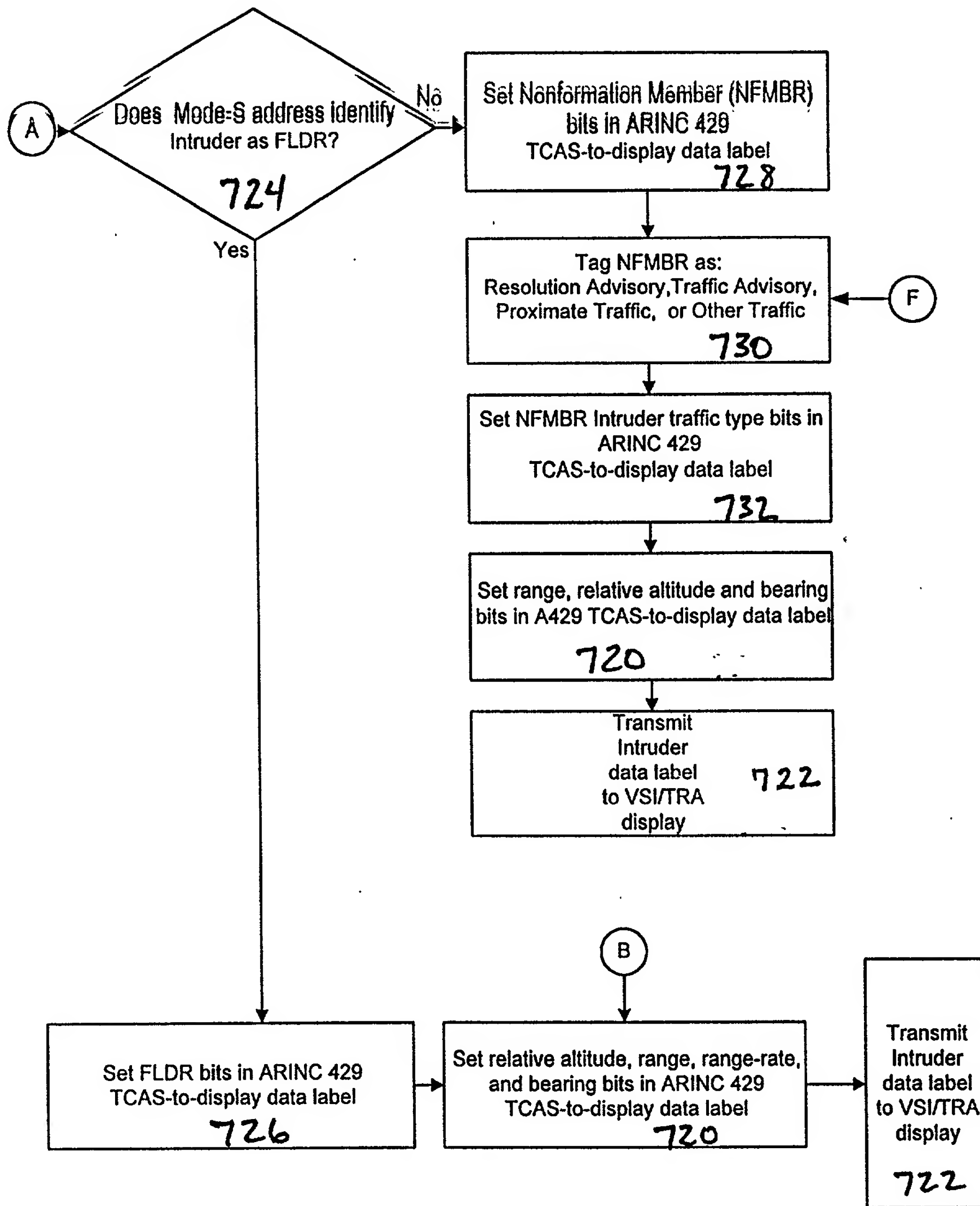


FIG. 8



```

graph TD
    722[722] --> 742[Receive the TCAS Intruder data label  
742]
    742 --> 744[Decode A429 data label to derive  
Intruder type (FMBR, FLDR, NFMBR),  
relative altitude, range, range-rate,  
and bearing  
744]
    744 --> 746[Identify Intruder by unique 24 bit  
Mode-S address  
746]
    746 --> 752
    subgraph 752 [Intruder Database  
filed by Mode-S Address  
752]
        direction TB
        752a[- Update bearing]
        752b[- Update relative altitude]
        752c[- Update range]
        752d[- Update range-rate]
    end
    752 --> D((D))
    746 --> 748{Is FMBR bit set?  
748}
    748 -- No --> C((C))
    748 -- Yes --> 750
    subgraph 750 [Annunciate Intruder as a FMBR  
at the correct relative bearing/  
range position on display and  
annunciate the latest relative  
altitude and range-rate  
750]
    end

```

FIG. 9

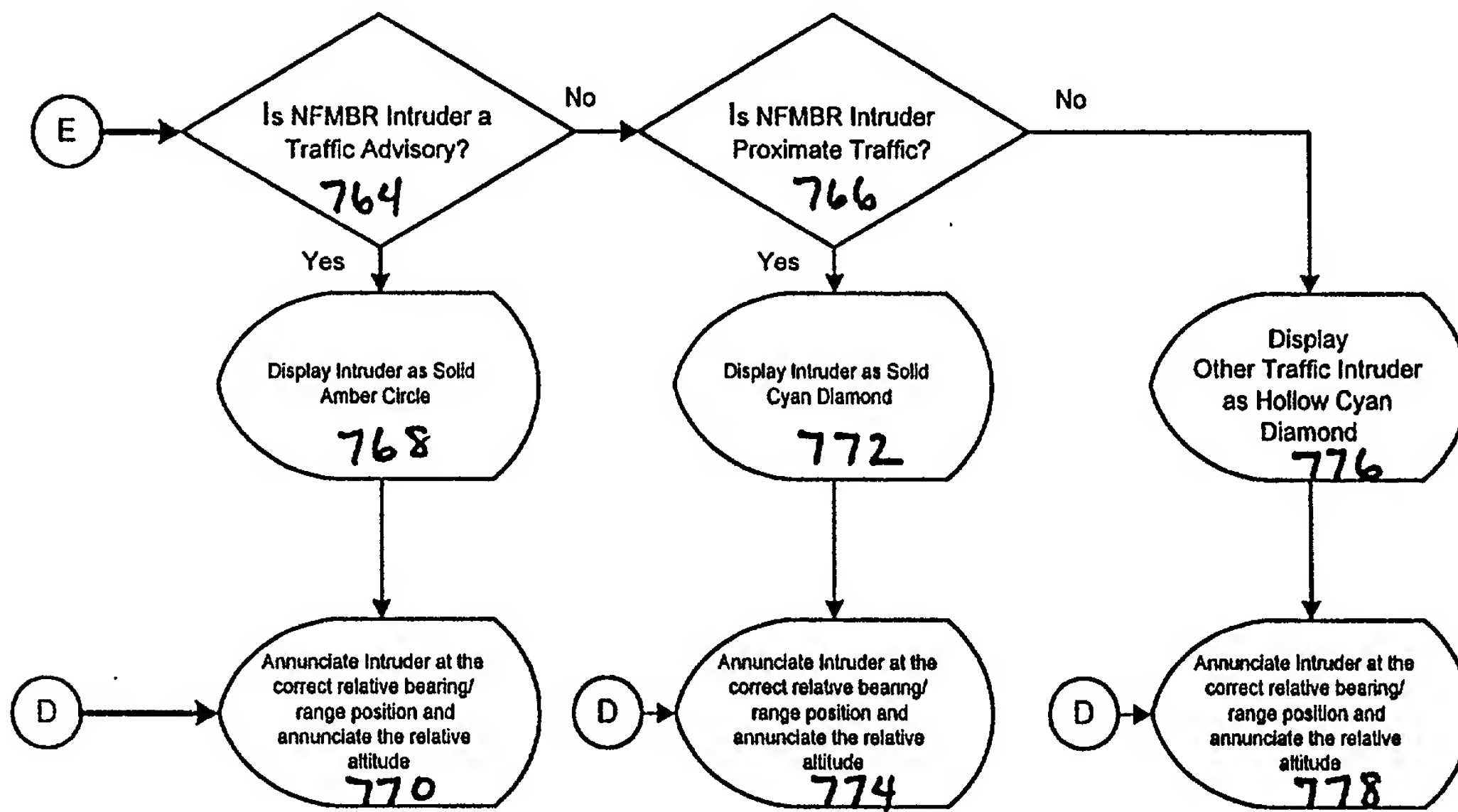
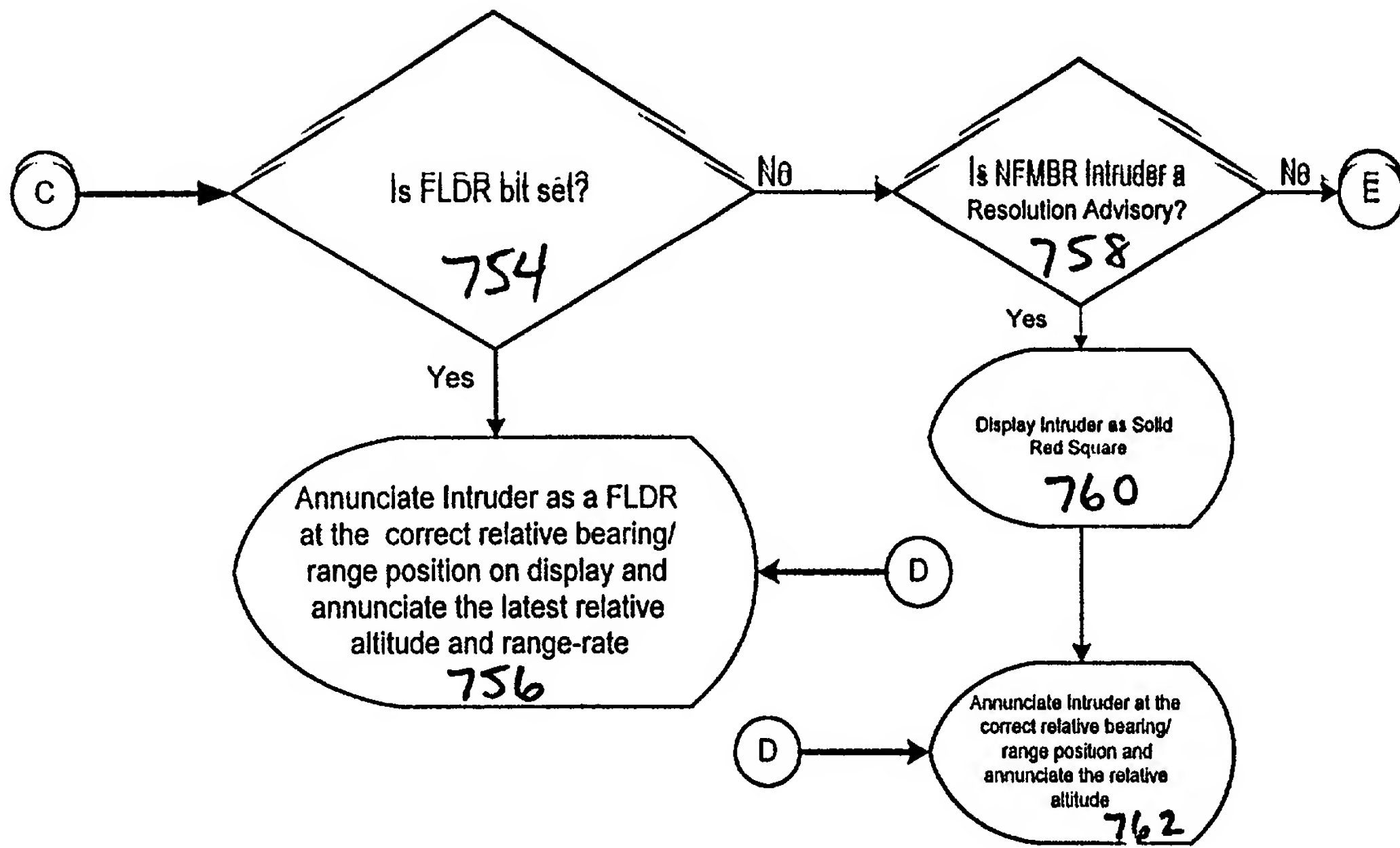


FIG. 10

2025 RELEASE UNDER E.O. 14176